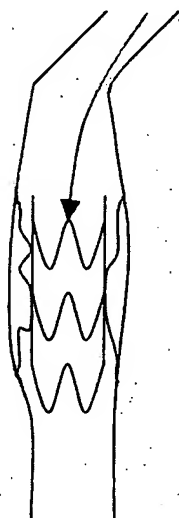
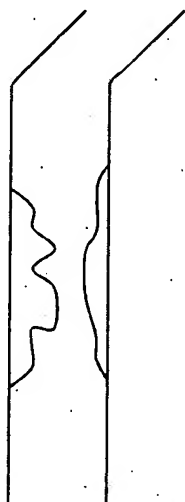




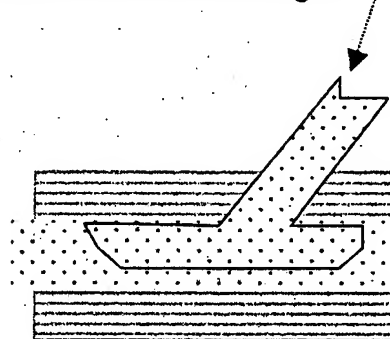
# DRAWING 1. MATERIAL & DEVICE FOR ARTIFICIAL AUTOGRAFT

A. Prior art

Artery Stenosis      Endovascular Stent

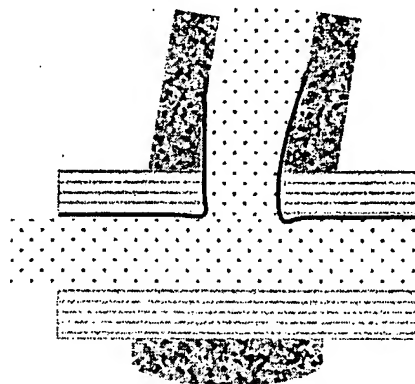


Endovascular device and graft



B. Present art

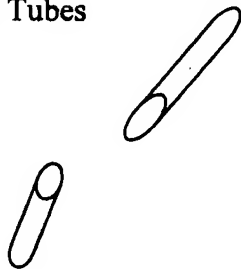
Extravascular connection adhering to the vessel and supporting the endothelium to line out through punched opening and lumen





## DRAWING 5. ICE CASTING FOR REPAIRING SEVERED TUBES

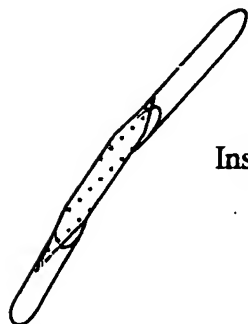
A. Severed Tubes



Removable Ice Casting Mould

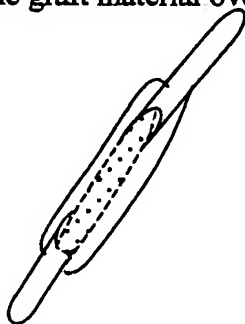


B.

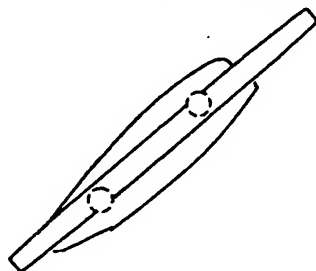


Insert the ice into the open ends of the tubes

C. Dispose the graft material over the exterior surface of the ice and tubes



D. After the ice is melted, a lumen is formed within the connection so that an autograft is cultured in a designed shape in situ.

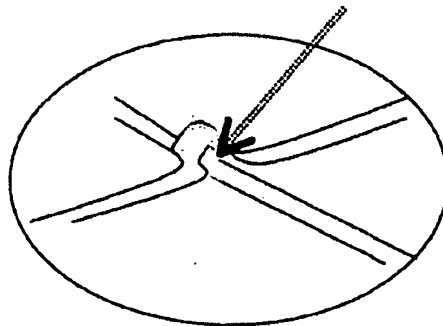
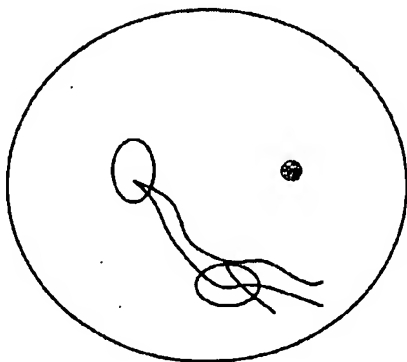




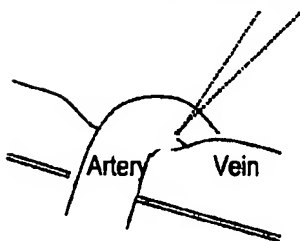
## DRAWING 7. LASER BYPASS FROM DISTANCE

Retinopathy

Laser beam is punching two openings on the opposite walls of an artery and a vein so that the artery blood is flowing into the low resistance vein network.



Laser beam focused on the opposite walls of artery and vein



Laser coagulation

